

1656
0222504
U.S. PTO

PTO/SB/05 (01-04)

Approved for use through 07/31/2006. OMB 0651-0032
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UTILITY
PATENT APPLICATION
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

| | |
|------------------------|----------------------------|
| Attorney Docket No. | H1799-00201 |
| First Inventor | Alfred L. Phillips |
| Title | FLEXIBLE LOOP THERMOSYPHON |
| Express Mail Label No. | EV343434081US |

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:
Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. Applicant claims small entity status.
See 37 CFR 1.27.
3. Specification [Total Pages 29]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. Drawing(s) (35 U.S.C. 113) [Total Sheets 18]
5. Oath or Declaration [Total Sheets 5]
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. Application Data Sheet. See 37 CFR 1.76

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. Paper
 - c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))
10. 37 CFR 3.73(b) Statement Power of Attorney
11. English Translation Document (if applicable)
12. Information Disclosure Statement (IDS)/PTO-1449
13. Preliminary Amendment
14. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. Certified Copy of Priority Document(s)
16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. Other: COMM.RE.UNSIGNED.DEC.....
.....CHANGE OF CORRESPONDENCE.....

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-part (CIP) of prior application No.: 10/628,645.....

Prior application information: Examiner NOT YET KNOWN Art Unit: NOT YET KNOWN

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

Customer Number: 00041396 OR Correspondence address below

| | | | |
|---------|-----------|----------|--|
| Name | | | |
| Address | | | |
| City | State | Zip Code | |
| Country | Telephone | Fax | |

| | | | | |
|-------------------|---------------------------|--|-----------------------------------|---------|
| Name (Print/Type) | SAMUEL W. APICELLI | | Registration No. (Attorney/Agent) | 36,427 |
| Signature | <i>Samuel W. Apicelli</i> | | Date | 2/25/04 |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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22387 U.S.PTO
10/786431

022504

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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 846)

Complete if Known

| | |
|----------------------|--------------------|
| Application Number | Not yet known |
| Filing Date | Herewith |
| First Named Inventor | Alfred L. Phillips |
| Examiner Name | Not Yet Known |
| Art Unit | Not yet known |
| Attorney Docket No. | H1799-00201 |

METHOD OF PAYMENT (check all that apply)

 Check Credit card Money Order Other None
 Deposit Account:

Deposit Account Number 04-1679
Deposit Account Name Duane Morris LLP

The Director is authorized to: (check all that apply)

 Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) or any underpayment of fee(s)
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
|----------------------------|----------------------------|------------------------|----------|
| 1001 770 | 2001 385 | Utility filing fee | 770 |
| 1002 340 | 2002 170 | Design filing fee | |
| 1003 530 | 2003 265 | Plant filing fee | |
| 1004 770 | 2004 385 | Reissue filing fee | |
| 1005 160 | 2005 80 | Provisional filing fee | |
| SUBTOTAL (1) | | (\$ 770.00) | |

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Total Claims | Independent Claims | Multiple Dependent | Extra Claims | Fee from below | Fee Paid |
|--------------|--------------------|--------------------|--------------|----------------|----------|
| 22 | 3 | | -20** = 2 | x 18 | = 36 |
| | | | - 3** = 0 | x 86 | = 0 |
| | | | | | = 36 |

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description |
|----------------------------|----------------------------|--|
| 1202 18 | 2202 9 | Claims in excess of 20 |
| 1201 86 | 2201 43 | Independent claims in excess of 3 |
| 1203 290 | 2203 145 | Multiple dependent claim, if not paid |
| 1204 86 | 2204 43 | ** Reissue independent claims over original patent |
| 1205 18 | 2205 9 | ** Reissue claims in excess of 20 and over original patent |
| SUBTOTAL (2) | | (\$ 36.00) |

**or number previously paid, if greater; For Reissues, see above

3. ADDITIONAL FEES

Large Entity Small Entity

| Fee Code (\$) | Fee Code (\$) | Fee Description | Fee Paid |
|---------------|---------------|--|----------|
| 1051 130 | 2051 65 | Surcharge - late filing fee or oath | |
| 1052 50 | 2052 25 | Surcharge - late provisional filing fee or cover sheet | |
| 1053 130 | 1053 130 | Non-English specification | |
| 1812 2,520 | 1812 2,520 | For filing a request for ex parte reexamination | |
| 1804 920* | 1804 920* | Requesting publication of SIR prior to Examiner action | |
| 1805 1,840* | 1805 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 110 | 2251 55 | Extension for reply within first month | |
| 1252 420 | 2252 210 | Extension for reply within second month | |
| 1253 950 | 2253 475 | Extension for reply within third month | |
| 1254 1,480 | 2254 740 | Extension for reply within fourth month | |
| 1255 2,010 | 2255 1,005 | Extension for reply within fifth month | |
| 1401 330 | 2401 165 | Notice of Appeal | |
| 1402 330 | 2402 165 | Filing a brief in support of an appeal | |
| 1403 290 | 2403 145 | Request for oral hearing | |
| 1451 1,510 | 1451 1,510 | Petition to institute a public use proceeding | |
| 1452 110 | 2452 55 | Petition to revive - unavoidable | |
| 1453 1,330 | 2453 665 | Petition to revive - unintentional | |
| 1501 1,330 | 2501 665 | Utility issue fee (or reissue) | |
| 1502 480 | 2502 240 | Design issue fee | |
| 1503 640 | 2503 320 | Plant issue fee | |
| 1460 130 | 1460 130 | Petitions to the Commissioner | |
| 1807 50 | 1807 50 | Processing fee under 37 CFR 1.17(q) | |
| 1806 180 | 1806 180 | Submission of Information Disclosure Stmt | |
| 8021 40 | 8021 40 | Recording each patent assignment per property (times number of properties) | 40 |
| 1809 770 | 2809 385 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1810 770 | 2810 385 | For each additional invention to be examined (37 CFR 1.129(b)) | |
| 1801 770 | 2801 385 | Request for Continued Examination (RCE) | |
| 1802 900 | 1802 900 | Request for expedited examination of a design application | |

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40)

SUBMITTED BY

(Complete if applicable)

| | | | | | |
|-------------------|---|-----------------------------------|--------|-----------|--------------|
| Name (Print/Type) | Samuel W. Aricelli | Registration No. (Attorney/Agent) | 36,427 | Telephone | 717-237-5516 |
| Signature |  | | | Date | 2/25/04 |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Alfred L. Phillips, Dmitry K. Khrustalev, Kevin L. Wert, Michael J. Wilson, Jonathan P. Wattelet and John Broadbent

Serial No.: Not yet known

Filing Date: Herewith

For: FLEXIBLE LOOP THERMOSYPHON

CERTIFICATE OF EXPRESS MAILING

MAIL STOP PATENT APPLICATION
Commissioner for Patents
P.O. BOX 1450
Alexandria, VA 22313-1450

Sir:

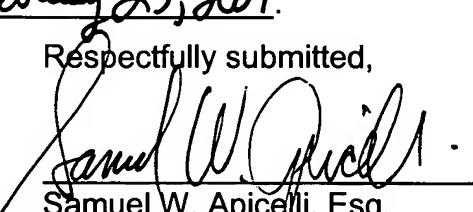
I hereby certify that this document, namely the above-identified **Continuation-in-part Patent Application** is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

"Express Mail" mailing label number EV343434081US

Date of Deposit February 25, 2004.

Respectfully submitted,

Date: 2/25/04


Samuel W. Apicelli, Esq.
Registration No. 36,427
Customer Number 000041396
Duane Morris LLP
305 North Front Street, P.O. Box 1003
Harrisburg, PA 17108-1003
Telephone: (717) 237-5516

Docket No: H1799-00201

HBG125623.1

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CHANGE OF CORRESPONDENCE ADDRESS

Application

Address to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450.

| | |
|------------------------|--------------------|
| Application Number | Not yet assigned |
| Filing Date | 02/25/2004 |
| First Named Inventor | Alfred L. Phillips |
| Art Unit | Not yet assigned |
| Examiner Name | Not yet assigned |
| Attorney Docket Number | H1799-00201 |

Please change the Correspondence Address for the above-identified patent application to:

Customer Number : 000041396

OR

| | | | | |
|--------------------------|----------------------------|-------|-----|--|
| <input type="checkbox"/> | Firm or Individual Name | | | |
| Address | | | | |
| Address | | | | |
| City | | State | Zip | |
| Country | | | | |
| Telephone | | Fax | | |

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

I am the:

Applicant/Inventor
 Assignee of record of the entire interest.
 Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).
 Attorney or Agent of record. Registration Number 36,427.
 Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number _____.

Typed or Printed
Name Samuel W. Apicelli

Signature Samuel W. ApicelliDate 2/25/04Telephone 717-237-5516

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Alfred L. Phillips, Dmitry K. Khrustalev, Kevin L. Wert, Michael J. Wilson, Jonathan P. Wattelet and John Broadbent

Serial No.: Not yet known

Filing Date: Herewith

For: FLEXIBLE LOOP THERMOSYPHON

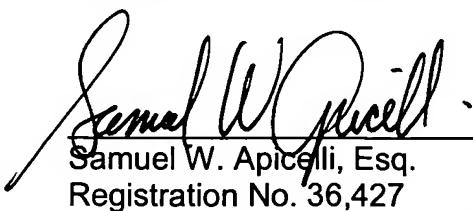
COMMUNICATION RE UNSIGNED DECLARATION

EV343434081US
MAIL STOP PATENT APPLICATION
Commissioner for Patents
P.O. BOX 1450
Alexandria, VA 22313-1450
Sir:

Submitted herewith is the patent application of Alfred L. Phillips, Dmitry K. Khrustalev, Kevin L. Wert, Michael J. Wilson, Jonathan P. Wattelet and John Broadbent. The application is complete but lacks a signed declaration from John Broadbent. Applicant requests a Notice of Missing Parts (filing date accorded) indicating the serial number and filing date, whereupon a signed declaration and the surcharge under 37 CFR 1.16 will be filed.

Respectfully submitted,

Date: 2/25/04



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Docket No: H1799-00201
HBG\125622.1